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AGRICULTURAL TECHNICAL INSTITUTE

ANNUAL REPORT OF ACCOMPLISHMENTS

1996

RESERVE

ABSTRACT/HIGHLIGHTS

I. TEACHING

A. COURSES OFFERED

	<u>COURSES</u>	<u>ENROLLMENTS</u>	<u>CREDIT HOURS</u>
Winter	110	2,757	9,505
Spring	112	2,212	7,715
Summer	44	725	2,367
Autumn	123	3,191	10,121

B. CURRICULUM INITIATIVES

There were several major curriculum initiatives during 1996 most of which were continuation of activities begun in 1995 including: the second year of the Associate of Science degree program utilizing Columbus campus courses, continuing the curriculum review with special emphasis on the general education component of all curricula, continuing the degree program at the Grafton prison site. New activities centered on establishing linkages with other colleges and modifying the program at the Grafton Correctional Institution due to funding changes.

C. OUTREACH ACTIVITY

Ohio State ATI's Continuing Education (CE) program serves the community, state and nation through credit and non-credit workshops and seminars. These seminars/workshops range from the traditional classroom presentations to tele-conferences for audiences ranging from traditional agricultural groups to manufacturing companies and small businesses. In 1996, over 35 regular and several special faculty members were in one or more activity. The major activities included traditional extension presentations, workforce development classes, technical update for teachers, elderhostel, "school-to-work" workshops for teachers, young investigators for junior high students, and upward bound for high school students.

Special workplace development programs for companies desiring to improve the basic skills of their employees continued to dominate the CE activities in 1996. These activities focused on major corporations (Seaman's, Monsanto and Rexroth), a newly established Wayne County Small Business Consortium (with Wayne College and the Career Center), major associations (Ohio Nursery and Landscape Assn and Ohio Landscapers Assn), and major machinery manufacturers (Case IH, New Holland, and John Deere).

II. RESEARCH AND SCHOLARLY ACTIVITIES

The research/scholarly activity at Ohio State ATI is applied to the agricultural and horticultural industries or to the teaching-learning process and is measured in numbers of publications and presentations.

A. PUBLICATIONS

Twenty (20) faculty members produced 44 publications in 1996 including 5 monographs; 5 bulletins or technical reports; 2 peer reviewed articles; 14 editor reviewed articles; 13 reviews or

abstracts; 4 papers in for proceedings; and 2 newsletters. One faculty member serves as editor of a professional journal and 6 members serve on editorial boards. Another 11 are reviewers for books or articles for journals.

B. PRESENTATIONS

In 1996, 16 Ohio State ATI faculty made 34 presentations to professional and industry groups.

III. SERVICE

The Ohio State ATI faculty have always been recognized for their service activities. In 1996, 23 faculty members provided professional service to their profession and/or community, including 13 serving professional associations, 6 serving trade organizations, 13 providing professionally related community service, and 10 serving on college committees. One person served on the University Senate and another serves OSU Academy of Teaching committee. Eighteen (18) served as consultants in a variety of ways from general public inquiries to making specific recommendations regarding business operations.

IV. GRANTS AND CONTRACTS

In FY96, Ohio State ATI received nearly \$900,000 in external funds to support 6 major projects ranging from special programs for junior high and high school students (Young Investigator's, Upward Bound and Tech Prep), to retaining currently enrolled students (Program EXCEL), to conducting a workplace development program with local industry (Productivity Improvement), and assisting incarcerated men with skill development to reduce recidivism (Co-op Demonstration).

V. INTERNATIONAL ACTIVITIES

Ohio State ATI had minimal activity in this area this year with only two presentations at the International Curriculum Conference hosted by the Midwest Institute for International Studies and Foreign Languages in Kalamazoo, MI.

VI. AWARDS AND HONORS

Nine (9) faculty members received special local, college and national awards in 1996: Ken Cochran, Wesley Greene, Mark Headings, Emil Miller, and Jean Opliger received the 1996 National Institute for Staff and Organizational Development (NISOD) Excellence Award.

Mark Headings, Linda Houston, Shirley Lunsford, and David Munn were recognized by Who's Who Among America's Teachers after being nominated by a former student in 1996.

Bob McMahon received the ATI Distinguished Teaching Award for the second time in his career. He is the first repeat recipient.

FACULTY BY RANK

Professor

G. Anderson

Associate Professor

R. Baur
M. Borger
R. Borton
T. Bowman
M. Fulton
W. Greene
K. Hammond
M. Headings
L. Houston
G. Kreps
P. Kroll

R. McMahon
A. Mokma
D. Munn
S. Neal
R. Niklas
J. Opliger
S. Rahnema
S. Woods
A. Zimmerman
T. Zimmerman

Associate Professor/Director Emeritus

D. Garrison

Associate Professor Emeritus

C. Opliger
J. Roberts
C. Stock

Assistant Professor

K. Bennett-Wimbush
K. Cochran
R. Dobec
G. Gordon
T. Lanker
S. Lunsford

E. Malinowski
E. Miller
R. Thornton
D. Willoughby
D. Voltz

Assistant Professor Emeritus

F. Lendrum
S. Stocker

Instructor

J. Carr
E. Copeland

F. Jennings
R. Rupp

1996 AGRICULTURAL TECHNICAL INSTITUTE REPORT OF ACTIVITIES

I. TEACHING

A. COURSES OFFERED

	<u>COURSES</u>	<u>ENROLLMENTS</u>	<u>CREDIT HOURS</u>
Winter	110	2757	9,505
Spring	112	2212	7,715
Summer	44	725	2,367
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B. CURRICULUM INITIATIVES

Associate of Science - As started in 1995, faculty were released from teaching duties at ATI to work with their Ohio State counterparts to develop the courses to be offered in the second year. With the first class of students came several advising concerns raised by implementing a limited number of courses in a new program with a host of options. With the restructuring occurring in the College, several curricular modifications continue to be made to keep the Associate of Science degree totally transferable to majors in the College. Ron Borton continues to give overall leadership to this effort. Gary Anderson was extensively involved with the horticulture major. Other faculty involved included Roger Baur, Tom Bowman, Steve Day, Linda Houston, George Kreps, Emil Miller, Bob Rupp, and Dee Stewart.

Curriculum Review - This comprehensive review of the curriculum was begun by the Academic Affairs Committee in 1994 to assess the quality of ATI programs in line with the needs of industry for highly skilled technicians. In 1996, the focus was on the general education portion of the curriculum with the key issues and challenges being:

- ▲ Adequacy of preparation of entering students for work at the technical college level.
- ▲ The general education "core" especially science and math as a foundation for the technology courses and feasibility or necessity of prerequisites.
- ▲ Incorporating "threads throughout the curriculum including "ecological paradigm" and international/globalization from Project Reinvent, information retrieval, diversity of ideas, critical/analytical/creative thinking, and the constancy of change.
- ▲ Economies and efficiencies associated with class sizes and the need to incorporate expensive new technology for distance learning at the same time trying to remain "state-of-the-art" with laboratory equipment.
- ▲ The appropriateness of one year certificates as an alternative to AAS degrees for those who are less well prepared for technical college work and/or who have more limited educational goals.
- ▲ The length and cost of our AAS program in light of the Ohio Board of Regents emphasis on affordability for students and access to Ohio's community and technical colleges.

Several survey questionnaires were developed and administered to faculty to determine the important concepts for major course areas including math, communication, business, and chemistry. Biology and social sciences will be completed in 1997.

In December, a faculty wide seminar was conducted to get faculty wide discussion to the results of the surveys as well as to address the significant issues. At the conclusion of the seminar, it

was agreed to have all technology advisory committees meet in the Spring of 1997 to discuss similar concerns and begin revising the curriculum around a core of "what every ATI graduate should know."

Linkages with other colleges - In recent years in an effort to more effectively serve location-bound students in the state, ATI has begun collaborating with several other colleges to jointly offer technical education programming in agriculture. In 1996, these colleges included:

- ▲ Wayne College in developing a formal "Statement of Collaborative Intent" to clearly communicate the intent to increase the cooperative offering of programs whenever reasonable;
- ▲ Ohio University-Lancaster in developing a transfer matrix for general education courses to be taken at OU-Lancaster which will meet AAS degree requirements in several technical programs;
- ▲ Ohio State-Lima in offering courses in agricultural business primarily through distance delivery;
- ▲ Cuyahoga Community College in developing a transfer matrix for courses in CCC's general plant science program to apply to ATI's more specialized AAS degree in horticulture;
- ▲ Lorain County Community College to identify LCCC courses which will transfer to meet AAS degree requirements as well as deliver technical courses on the LCCC campus;
- ▲ Muskingum Area Technical College, Terra State Community College and Ohio University as part of a statewide Tech Prep curriculum development effort to prepare a "seamless" high school to college transition for people preparing for entry into environmental technology careers.

Prison Program - The prison program, which specializes in horticulture, is one of five recipients of Federally funded Cooperative Demonstration Programs. This program is offered at the Grafton Correctional Institution and the Mansfield Correctional Institution. At Grafton there is a special component leading to an Associate of Technical Studies degree, otherwise this program offers a Certificate of Achievement. In 1997 inmates will no longer be eligible for the Ohio Instructional Grants and funding will come from the Department of Rehabilitation and Corrections. The faculty who were involved with this program include Amie Mokma, Gary Anderson, Art Myers, and Martha Parrish.

C. OUTREACH ACTIVITY

Due to a stronger emphasis on partnerships and collaboration with other organizations, ATI experienced a significant increase in the level of outreach activity in 1996. Partnerships and collaborative efforts with local business and industry, nearby schools, the Ohio Department of Education Division of Vocational and Career Education, and agricultural industry across the state and throughout the country have been the key to this enhanced level of activity.

Extension

ATI faculty continue to be involved in variety of extension activities, sometimes with credit and non-credit courses and other times as judges. Faculty involved in 1996 include:

Tom Bowman - *Using the Internet to access information*, Milk Marketing, Inc., May 8.

Jim Carr - *Understanding the Internet and Creating Web Pages*, two short courses for Wooster area teachers and real estate agents, Summer.

Ken Cochran - Conducted a Rhododendron School in Wooster in cooperation with Lorain County Extension.

Ken Cochran - *Plants, People and the Environment*, Northeast Ohio Green Industries, Stan Hywet Hall and Gardens.

Ken Cochran - *Plant Selection for an Environmentally Friendly Landscape*, Stark-Summit Master Gardeners.

Ken Cochran - In-service diagnostic clinic and plant selection seminar for Eden Group.

Ken Cochran - *Right Plant for Right Place*, OARDC Staff Training Seminar.

Richard Dobec - Taught *Horse Health* as credit course for UAW union, Cleveland Ford Assembly Plant, Spring Quarter.

Mike Fulton - *Chemical Lawn Care: What's Going On?*, OARDC Staff Training Program.

Wesley Greene - *Balancing dairy rations for different types of carbohydrates and proteins*, Dairy Nutrition Extension program, December 17.

Bob McMahon - *Bedding plant workshop*, Crop King, Inc.

Steve Neal - *Putting the test data to work on your farm and Artificial insemination in the small herd*, New York State Pork Producers Conference, January 27.

Steve Neal - Holmes Co. Fair - 4-H Pork Carcass Contest Official, August 19.

Steve Neal - Wayne Co. Pork Carcass Contest Official, August 28.

Steve Neal - Loudonville Street Fair Live Hog Sonoray evaluator, October 10

Karen Wimbush - *Equine Reproductive Management*, Equine Extravaganza, May 11.

Karen Wimbush - Coached several 4-H groups and a FFA chapter in horse judging and giving oral reasons.

Workforce Development

Industrial Automation Maintenance - This non-credit certificate program continues to provide skill training for local industry employees. Most of the courses in this program are taught by local experts in the industry and not regular faculty.

Monsanto Protiva Division - Protiva, which provides technical support services to the U. S. dairy industry, selected ATI as its educational site for newly hired sales representatives, dairy nutrition specialists, technical support personnel and interns. The week-long program, offered twice in 1996 to 13 people, was conducted by Wesley Greene and Royce Thornton

Seaman Corporation - In 1995 *Partners in Progress: The Seaman High Performance Workforce Development Program* was funded through the OBR Productivity Improvement Challenge Program. The program was initially developed to provide basic skills training as well as to empower Seaman associates to work with less supervision, in a continuous quality improvement environment. In 1996 the program was expanded to include: computer training (in partnership with the Wayne County Schools Career Center), communications, supervisory training, team skills and problem-solving for frontline associates, leadership development and coaching teams for the management group, and highly technical product design review and design of experiments for the development associates.

Several unique outcomes are developing: 1) ATI faculty travelled to Seaman's Bristol, TN, facility to team with instructors from Northeast State Technical Community College in launching a similar workforce development program at that plant; 2) classes and training sessions at the local facility have been made available to the spouses of Seaman associates; 3) management has agreed to offer ATI credit courses on site to encourage interested associates to work toward their degrees (If space permits, these courses may also be available to employees of neighboring companies); 4) leaders from Seaman and ATI are meeting to discuss experiences with organizational change and sharing leadership resources in an effort to further impact community and economic development. Faculty and administrators involved include Kim Sayers, Jean Opliger, Emil Miller, Richard Niklas, Allen Zimmerman, Gene Malinowski, Bill Anderson, Amie Mokma, and Norm Stanley.

Rexroth Corporation - Emil Miller taught several courses for this company which has a long standing partnership with ATI. the courses were "Technicomp" (Technical Competence Through Training) Basic Dimensional Measurement Workshops: *Basic Linear Instruments* with 46 students, *Fixed Gages* with 46 students, *Surface Plate Equipment and Methods* with 57 students, *Dial Indicators* with 44 students, and *Pneumatic Gaging* with 59 students.

Ohio Nursery and Landscape Association - In 1996 Ohio State ATI offered its second annual Arboretum Academy, a four week course taught by Ken Cochran.

In 1996 ATI, ONLA and the Ohio Landscapers Association (OLA) initiated the process of bringing Associated Landscape Contractors of America (ALCA), certification to Ohio. These three organizations would sponsoring the national certification exam with ATI as the test site. ATI people involved include Kim Sayers, Kent Hammond, Gary Anderson, Ken Cochran, and Dan Voltz.

Wayne County Small Business Training Consortium - ATI, The University of Akron-Wayne College and the Wayne County Schools Career Center have established a consortium to provide workforce development services and education for small businesses in the Wayne County area. The consortium partnered with three companies: AstroCosmos Metallurgical, CNC Metal Products, and Orrco, Inc. in seeking, and being successfully awarded, an OBR-ODOD Small Business Workforce Development Grant.

Machinery Dealers - Several machinery manufacturers have been involved in discussion regarding in-service training for their dealer technicians and entry level education for prospective technicians. These companies include: New Holland, Case I-H, AGCO, and John Deere's Construction Equipment and Consumer Products (Lawn and Garden) Divisions. Faculty involved are Gene Malinowski and Ed Barry.

OTHER

Plant Science Summit/Technical Update - This special two-day event for Ohio high school agricultural teachers involved nearly all ATI faculty especially those with technical agriculture expertise. This event was planned in conjunction with the Ohio Department of Education and the Ohio Vocational Agriculture Teachers Association.

Elderhostel - A new Elderhostel Program was conducted at ATI with 50 participants for this week long program. The faculty involved included George Kreps, Bob McMahon and Dee Stewart.

School-to-Work - ATI partnered with the Wooster City Schools and Goodyear Rubber Company in developing a special CQI program for Wooster City School K-12 teachers. Upon successful award of the state proposal, a series of six 6-week workshops/seminars were offered beginning in September and concluding with a special workshop/seminar for ATI faculty in May 1997. George Kreps is the faculty member involved.

Young Investigators/Upward Bound - These two programs have been offered by ATI for the past several years with intensive "camps" during the summer. Both programs are funded by grants from federal agencies: Young Investigators by NSF and Upward Bound by USDE. The Young Investigator program involves junior high students and the Upward Bound program is for high school students. Several faculty are involved including Clyde Opliger, Jean Opliger, Sha Rahnama, Ron Borton, Tom Zimmerman, Dave Munn, and Ella Copeland with Young Investigators and Phil Grimm, Gail Miller, and Linda Houston with Upward Bound.

II. RESEARCH AND SCHOLARLY ACTIVITIES

A. PUBLICATIONS

1. Books and Monographs

Opliger, J.S. Express Yourself at Seaman Corporation, customized as part of the Partners in Progress: The Seaman High Performance Workforce Development Program

Opliger, J.S. Dealing with People at Work at Seaman Corporation, customized as part of the Partners in Progress: The Seaman High Performance Workforce Development Program

Opliger, J.S. Maximizing Effective Management Practices at Seaman Corporation, customized as part of the Partners in Progress: The Seaman High Performance Workforce Development Program

Opliger, J.S. Understanding Teams at Work at Seaman Corporation customized as part of the Partners in Progress: The Seaman High Performance Workforce Development Program

Opliger, J.S. Partners in Progress, How to Coach: A Coach's Handbook for CARE Quality Ideas, customized as part of the Partners in Progress: The Seaman High Performance Workforce Development Program

2. Edited Books

3. Chapters in Edited Books

4. Bulletins and Technical Reports

Anderson, G.A. "Herbaceous Plants in the Winter Landscape," Buckeye, September 1996. An eight-page invited technical article in the official publication of the Ohio Nursery and Landscape Association.

Chatfield, J., E. Draper, K. Cochran, P. Bristol, and C. Tubesing. "Aesthetic Evaluation of Crabapples at Secrest Arboretum in Wooster, Ohio: 1994-95," Ornamental Plants Annual Reports and Research Reviews, Special Circular 152, January 1996; pp. 12-21

Chatfield, J., E. Draper, K. Cochran, P. Bristol, and C. Tubesing. "Evaluation of Crabapples for Apple Scab at Secrest Arboretum in Wooster, Ohio: 1995," Ornamental Plants Annual Reports and Research Reviews, Special Circular 152, January 1996; pp. 22-26.

Draper, E., J. Chatfield, and K. Cochran. "Emergence, Longevity, and Aesthetic Evaluations of Flowers in Ornamental Crabapples of Secrest Arboretum in Wooster, Ohio: 1995," Ornamental Plants Annual Reports and Research Reviews, Special Circular 152, January 1996; pp. 27-31.

Headings, M.E. June 1996. Applied Science Workshop Manual - Horticulture, Tech Prep, Ohio State ATI, Wooster, OH; 34 pp.

5. Peer-Reviewed Journal Articles

Jennings, F.L. and J.A. Draper. "Federal and Ohio Estate Tax Valuation Elections and Resulting Ohio Income Tax Ramifications, The Ohio CPA Journal, December 1996.

Zimmerman, A. "Recommendations for a Successful Internship Program." NACTA Journal, 1996, 40(2):4-7.

6. Editor-Reviewed Journal Articles

Chatfield, J., E. Draper, K. Cochran. "Comprehensive Aesthetic Evaluations of Crabapple in Ohio: 1993-1995," Malus, the International Ornamental Crabapple Society Bulletin, Spring 1996.

Chatfield, J., E. Draper, K. Cochran. "The Magic of Malus," American Nurserymen, August 15, 1996.

Jennings, F.L. "The Simultaneous Teaching of Accounting and Economics to the Two-Year Student," OATYC Journal, Spring 1996.

Jennings, F.L. and R. Niklas. "Improved Inventory Management Equals Improved Profitability," The ECO Communicator, July/August 1996.

Kreps, G. and R. Baur. "The Use of TQM in Retention." NACTA Journal, Fall 1996.

Kreps, G., M. Kreps, J. Donnermeyer. "The Impact of Tourism on the Amish." British Community Development Journal, 1996.

Lanker, T. "Customer Conveniences: Tips for Serving Today's Fast-paced Consumers," Florists' Review, December 1996.

Munn, D.A. and J. Carr. "Cropland Utilization of Construction Drywall Waste." Biocycle Vol 37 (No 7): 57, July 1996.

Niklas, R.J. "Pricing Policies and Strategy," ECO Communicator, March-April 1996.

Niklas, R.J. "Marketing Research - A Key to Success," The Cleveland Food Dealer, May-June 1996.

Niklas, R.J. "Financial Management - A Key to Success," The Cleveland Food Dealer, September-October 1996.

Willoughby, D.A. "Secure Front-end Loader Safety," Grounds Maintenance, November 1996.

Woods, S.J. "Have Faith in Faculty Characteristics." OATYC Journal 1996, 21(1): 30-31.

Zimmerman, A. "Student Facilitator Teams in an Orientation Course." OATYC Journal, 1996, 21(1):28-29.

7. Reviews and Abstracts

Anderson, G. A. "Developing a Horticulture Transfer Program at a Two-Year Technical College." HortScience, Volume 31, Number 4, August 1996.

Borger, M.L., W.A. Greene, and D.L. Grooms. "Electronic pressure sensing system as an alternative to visual observation of estrus in beef cows with or without Syncro-Mate-B® treatment." Journal of Animal Sci. 74(Suppl. 1):244.

Borton, R.J., M.L. Borger and S.M. Neal. "Use of Lean-Meater backfat measurement to sort live market hogs for carcass grade and yield marketing." Journal of Animal Sci. 74. Suppl. 1.

Borton, R.J., M.L. Borger and S.M. Neal. "Relationship of live real-time ultrasound, Lean Meter® and carcass fat-o-meater evaluation of slaughter hogs." Journal of Animal Sci. 74. Suppl. 1.

Greene, W.A. and M.L. Borger. "Comparison of two estrus detection methods and estrus characteristics for beef cows." Journal of Animal Sci. 74 (Suppl. 1):246.

Greene, W.A. and R.B. Thornton. "Evaluation of a dairy production and management training program for service industry personnel." Journal of Dairy Sci. 79(Suppl. 1):149.

Greene, W.A., R.B. Thornton, and M. Migliazzo. "Evaluation of a dairy production and management training program for service industry personnel." Journal of Dairy Sci. 79 (Suppl. 1):185.

Headings, M.E. "Rewarding Teaching at The Ohio State University Agricultural Technical Institute," NACTA Journal, XL(3):20-21.

Irvin, K.M., S.M. Neal, S.L. Kacirek and S.J. Moeller. "Individual and maternal heterosis in Yorkshire and Large White breed crosses." Journal of Animal Sci. 74. Suppl. 1.

Irvin, K.M. and S.M. Neal. "Relationships among reproductive traits in Landrace swine selected for sow productivity index." Journal of Animal Sci. 74. Suppl. 1.

Jennings, F.L. "Introducing an Awareness of International Accounting by Developing an International Module and Utilizing Foreign Corporation Annual Reports," NACTA Journal, September 1996.

Neal, S.M. and M.S. Lilburn. "Comparison of weanling pig performance with limestone or zebra mussel shell as the primary calcium source." Journal of Animal Sci. 74 Suppl. 1.

Thornton, R.B., T.E. Noyes, K.W. Snyder, and W.P. Weiss. "Effect of protein supplementation on milk yield, milk components, and feed costs of dairy cattle under intensive rotational grazing." Journal of Dairy Sci. 79 (Suppl. 1): 149.

Wimbush, K. "Tonic secretion of growth hormone differs in prepubertal Quarter Horses and ponies with respect to age but not breed." Journal of Animal Sci. 79. Suppl. 1.

8. Papers in Proceedings

Carr, J. and D. Munn. "Alternative Disposal Methods Of Construction Site Gypsum Wallboard Waste." The Proceedings of the Great Lakes Region of The Associated Schools of Construction Annual Meeting, November 1, 1996.

Headings, M.E. "Using the Freeze-Dry Technique to Enhance Preservation of Insect Larvae." Proceedings of the 32nd Annual Convention of the Caribbean Food Crops Society, Zamorano, Honduras.

Johnson, C., N. Brooker and A. Zimmerman. "Teachers and Type." Proceedings: Quality Education: Evolution and Revolution - The Role of Psychological Type, Center for Applications of Psychological Type, Gainesville, March 1996, pp. 199-202.

Noyes, T.A., W.P. Weiss, and R.B. Thornton. "Effect of protein supplementation on milk yield, milk components, and feed costs of dairy cattle under intensive rotational grazing." Proceedings of the 1996 American Forage and Grassland Council, p. 121.

9. Editorships

L. Houston - Editor, Ohio Association of Two-Year Colleges Journal.

Editorial Boards

R. Dobec - Advisory Board, Equine Athlete

S. Lunsford - Editorial Board, OATYC Journal.

A. Mokma - Editorial Board, OATYC Journal.

J. Opliger - Editorial Board, The Journal of Teaching and Learning

G. Malinowski - Editorial Advisory Board, Off-Highway OEM Journal

S. Neal - Editorial Associate, The Professional Animal Scientist

Reviewers (manuscripts for articles)

J. Carr - Proceeding of the Associated Schools of Construction, reviewed three manuscripts.

M. Headings - Journal of Entomological Sciences, reviewed one manuscript.

L. Houston - Teaching English in the Two-Year College Journal.

G. Kreps - Teaching Sociology.

S. Lunsford - OATYC Journal.

D. Munn - Journal of Natural Resources and Life Sciences Education, reviewed one manuscript.

S. Neal - Journal of Animal Science, reviewed one manuscript.

T. Zimmerman - Journal of Environmental Quality, reviewed four manuscripts; Soil Science Society of America Journal, reviewed two manuscripts

Reviewers (manuscripts for books)

J. Carr - *Construction Management*, Simon and Schuster, 1996.

G Malinowski - A proposed textbook on farm and power equipment operation and maintenance, McGraw-Hill Publishing.

G Malinowski - A proposed book on manufacturing processes, Delmar Publishing.

D. Munn - Reviewed three textbook proposals, Delmar Publishing.

D. Munn - *Soil and the Environment - Societal Implicators*, Soil Science Society of America.

T. Zimmerman - *Environmental Science*, Wm. C. Brown, Publishers,

Other

K. Hammond - "Look to the Future" series article about Ohio Horticulture Internship program, Buckeye, December 1996.

K. Hammond - "Landscaping of the Future is Here Today," NCLT national newsletter.

Bob McMahon - Article for The Ohio State University Section of Communications and Technology News & Media Relations Smart Stuff bulletin describing insectivorous plants, written for children. October 27.

B. PRESENTATIONS

G. A. Anderson - "Developing a Horticulture Transfer Program at a Two-Year Technical College," American Society for Horticultural Science, Lexington KY, October 8, 1996.

G. A. Anderson, "Creating and Evaluating Period Floral Design," Ohio Association of Garden Clubs, Columbus OH, September 10, 1996.

J. Carr - "The Internet in the Classroom," Ohio Association of Two Year Colleges, Steubenville OH, October 25, 1996.

J. Carr - "Computer Science," Midwest Institute for International Studies, Kalamazoo MI, October 26, 1996.

K. Cochran - "Environmental Affects of Landscape Plants," Northern Ohio Chapter, Golf Course Superintendents Association of America, Mohican Hills Country Club, Loudonville OH, October 1, 1996; Great Lakes Chapter American Rhododendron Society, Wooster OH, October 26, 1996.

K. Cochran - "Tree Selection and Forest Management," East Central Ohio Forestry Association, Wooster OH, October 19, 1996.

M. Fulton - "Externship at the College of Wooster," Tech Prep Workshop, Wooster OH, July 19, 1996.

M. E. Headings - "Susceptibility of Colorado Potato Beetle to Neem Extract and *Bacillus thuringiensis*." North Central Branch, Entomological Society of America, Omaha NE, March 27, 1996.

M. E. Headings - "Rewarding Teaching at The Ohio State University Agricultural Technical Institute," NACTA Annual Conference, Crookston MN, June 17, 1996.

L. Houston - "How I Got Beyond the Five-Paragraph Essay: Stimulating the Teacher's Awareness," Two-Year College English Conference - Midwest, Davenport IA, October 4, 1996.

L. Houston - "Teaching Computer Skills in the First-Year Writing Course: Can It Be Done? Should It Be Done?" Two-Year College English Association - Northeast, Rochester NY, October 11, 1996.

L. Houston - "Learning Disabilities and Self-Esteem: Specialist/Teacher Collaboration," Ohio Association of Developmental Education, Columbus OH, November 6-8, 1996.

L. Houston and T. Kunze - "Scaling Mt. Everest: Transcending Barriers Confronting Community College Students," Conference on College Composition and Communication, Milwaukee WI, March 28, 1996.

L. Houston and A. Mokma - "'We' and 'They': Can We Become 'Us'?" Ohio Association of Two-Year Colleges Annual Conference, Steubenville OH, October 25, 1996.

L. Houston and A. Zimmerman - "Student Empowerment: Techniques and Methods for Achieving Success," 7th Annual Teaching Academic Survival and Success Skills Conference, Cincinnati OH, April 21, 1996.

F. L. Jennings - "Teaching Accounting at an Agricultural School," NACTA Annual Conference, Crookston MN, June 1996.

F. L. Jennings - "International Accounting," (Business Panel) Midwest Institute for International Studies, Kalamazoo MI, October 26, 1996.

T. Lanker - Featured designer, Florida State Florists' Association Mid-Season Design Show, Jacksonville Beach FL, January 20-21, 1996.

T. Lanker - "Floral designs on modern interpretations of historical bridal bouquets and sympathy arrangements," Topeka KS, May 6-10, 1996.

T. Lanker - "Everyday, Every Way," Atlanta GA, February 24-25, 1996; Manchester NH, March 16-17, 1996; Portland OR, March 9-10, 1996; Ft. Myer FL, June 1-2, 1996.

T. Lanker - "The Memory Garden," Houston TX, June 22-23, 1996.

T. Lanker - "Bridal Bouquet Styles, Then and Now," Northeast Florida Florists' Association, Jacksonville FL, July 31-August 1, 1996.

T. Lanker - Featured designer/commentator, Wisconsin and Upper Michigan Florists' Association 77th Annual Convention, Madison WI, September 13-15, 1996.

T. Lanker - Featured designer/Workshop presenter, Green Mountain Wholesale Florist, S. Burlington VT, October 11-13, 1996.

S. Lunsford - "Opening Doors: Connecting reading, Writing and Social Studies," Ohio Council of the International Reading Association, Dublin OH, November 2, 1996.

S. Lunsford and E. Copeland - "Visualization as a Learning Process," Seventh Annual Teaching Academic Survival and Success Skills Conference, Cincinnati OH, April 22, 1996.

T.A. Noyes, W.P. Weiss, R.B. Thornton. "Effect of protein supplementation on milk yield, milk components, and feed costs of dairy cattle under intensive rotational grazing," American Forage and Grassland Council, Vancouver, British Columbia, June 13-15, 1996.

B. Rupp - "The Microscopic World of Plants," Wooster Garden Study Club, Wooster OH, February 2, 1996.

D. A. Willoughby - "The Turfgrass Technology Curriculum Now and for the Future." Northern Ohio Golf Course Superintendents' Association, Cleveland OH, May 20, 1996.

T. Zimmerman - "Wetlands for Manure Treatment: How are They Working?" Conservation Partnership All Employee Seminar, Worthington OH, March 6, 1996.

T. Zimmerman - "Use of Constructed Wetlands for Milkhouse Wastewater Disposal." International Annual Meeting of ASAE, Phoenix AZ, July 15, 1996.

III. SERVICE

A. PROFESSIONAL SERVICE

1. Professional Associations (offices, boards, etc.)

G. Anderson - Board of Directors, Ohio Junior Horticultural Association (hosted state contest at ATI, April 1996); State Board, Ohio Associations of Garden Clubs (counselor to President, presenter at Judge's School); Retail Short Course and Decorations Committee, Ohio Florists' Association (participated in retail programs and supervising ATI student participation in 1996 International Floriculture Industry Short Course, Cincinnati); Conducted State Floriculture Contest for FFA, April 12, 1996.

K. Cochran - ONLA Certification Committee, International Plant Propagation Society, American Association of Botanical Gardens and Arboretums, Holly Society of America, Conifer Society, and International Society of Arboriculture

K. Hammond - ONLA State Certification Committee and Student Activity/ Scholarship Committee; ALCA Accreditation Team; ALCA National Certification Landscape Review Council; ALCA Curriculum Committee/Scholarship subcommittee; ALCA Student Career Day Committee/Student Events Career Day and University Career Day Program Subcommittees; ALCA National Standards Subcommittee.

L. Houston - CCCC: Coordinator, Two-Year College Breakfast; TYCA: Taskforce to plan first National Conference or Workshop, Selection Committee for the Nell Ann Pickett Award.

F. Jennings - NACTA International Committee member; Mid-America Commodity Exchange member.

G. Kreps - American Sociology Society: Coordinator on two projects involving development of reference lists for sociology.

T. Lanker - Redbook Florists Services: Educational Design Team; Ohio Florists' Association: Retail Short Course Planning Committee, Decorations Committee, Retail Extension Committee; American Institute of Floral Designers: Student Chapter Advisor.

S. Lunsford - OCIRA Board of Directors, Area 10 Representative (McKinley, Richland-Ashland-Hershey, Tuscarawas Counties and Wayne County), Chair, Integrating Reading and Writing Committee (state committee), Chair, Adult Literacy Committee (state committee); Wayne Co. Council of International Reading Association (WCCIRA), Membership Committee.

E. Miller - Ohio Mathematics Association of Two-Year Colleges Advisory Committee; American Mathematics Association of Two-Year Colleges Developmental Mathematics Committee.

A. Mokma - North Central Association of Colleges and Schools: Consultant Evaluator

D. Munn - Chair, American Society of Agronomy Student Slide Contest Committee

S. Neal - Proposal Reviewer: USDA Reproductive Biology of Animals Program.

T. Zimmerman - ASAE: Chair of SW-23, Drainage Group; SW-02, Steering Committee; SW-04, Program Committee; SW-232, Water Table Management in Humid Regions; SW-245, Turf & Landscape Irrigation; and INT-611, International Affairs.

2. Trade Associations (offices, boards, etc.)

J. Carr - National Association of Homebuilders: first vice chair of Student Chapters Faculty Advisory Board; Ohio State Apprenticeship Council; Buckeye Rural Builders Association: Secretary-Treasurer since 1991.

R. Dobec - Director for Fair Racing - Wayne County Fair

B. McMahon - Ohio International Floral Short Course moderator.

D. Munn - Member Ad Hoc Committee "Agronomy and K-16 Education" of the American Society of Agronomy.

S. Neal - Ohio Pork Improvement Association Board of Directors

R. Niklas - Ohio Food Industry Educational Foundation, Board of Directors; National Grocer's Association Coordinator of National Best Bagger Contest; Ohio Grocer's Association Judged the state Best Bagger Contest.

3. Discipline Related Service to the Community

G. Anderson - BioHio, July 19-21, 1996, served on the ATI planning committee; Tech Prep Consortium Steering Committee; Ohio Department of Agriculture, 1846 Ohio Agricultural Fair, August 2-18, 1996; two floral demonstrations: "A Prelude to Spring," Mt. Vernon Garden Club, February 2 and "Liturgical Floral Art," Fireside Club, April 1.

G. Anderson, K. Cochran, B. McMahon - Provided plants and/or floral decorations for a host of events including the Buckeye Book Fair, Wayne Association for the Education of Young Children, Rubbermaid Annual Meeting, Wayne County Home and Garden Show.

G. Anderson, T. Lanker, B. McMahon - FFA State Floriculture Contest

R. Borton - Assisted Buckeye Trails FFA in first annual Judging Contest Invitational; Wayne County Junior Fair official for the Beef and Sheep skills contests; Elementary Science Expo for Wayne county.

J. Carr - Vocational Industrial Clubs of America, Building Trades judge, Skill Olympics.

K. Hammond - Wooster Shade Tree Commission, Deputy Chair; coordinated booth at Wayne County Home and Garden Show.

M. Headings - Mohican District Science Day Judge, Ashland University, March 30, 1996.

B. McMahon - OARDC/Ohio State ATI Speakers Bureau; Lorain and Wayne County Fairs as fruit and vegetable judge; annual carnivorous plant seminars, Vital Signs Workshop, Columbus campus; several presentations to various organizations on houseplant care, hobby greenhouses and cold frames, and carnivorous plants.

S. Neal - Wayne Co. Swine Committee

J. Opliger - With Mike Searcy to Adult Basic and Literacy Education, Wayne County Family Learning Center; Coach, Seaman Associate's CQI Quality Idea Team.

S. Rahnema - Mohican District Science Day Judge, Ashland University, March 30, 1996.

D. Willoughby - BioHio Open House; Represented The Ohio State University Agricultural Technical Institute at numerous professional and industry-related events.

S. Woods - Wayne Co. Fair: Crops judge, September 7, 1996; Baughman Grange: corn judge, November 16, 1996

B. ACADEMIC SERVICE

1. College

G. Anderson - Promotion and Tenure Committee; Promotion and Tenure Documentation Committee

R. Borton - Animal Care Committee

K. Cochran - OSUE Nursery Landscape Turf Team

M. Headings - Agriculture Faculty Council; International Programming Team

L. Houston - Agriculture Faculty Council

G. Kreps - CQI Team Committee

S. Neal - Needs Assessment Committee; OSU Swine Team

R. Niklas - CQI Committee

J. Opliger - CQI Resource Team; CQI Committee

R. Thomson - OSUE Dairy Team

2. University

L. Houston - University Senate; Regional Campus Advisory Committee for English

E. Miller - The Academy of Teaching Committee

C. CONSULTATION

G. Anderson - frequent inquiries from the public and extension agents regarding a great diversity of horticulture topics.

J. Carr - beta tested *VisualFile* software for Kansas City, Missouri.

K. Cochran - Republic Steel, Massillon, about possible tree selections for planting in slag deposits; Hauser Chemical, Tom Warden, Boulder, CO; advise on Taxus cultivars; Carl Shank, Landscape Architect, VA; Craig Vargo, Medina, landscape maintenance programs for commercial landscapes; Miller Lake Estates, Wooster, reclamation of lake areas; Donzell's Nursery, Clinton, development of a wholesale nursery; ONLA Plant Selection Committee for plant selections; Lake County Nursery, Perry OH and Dow Chemical, Midland MI on the taxonomy of Taxus; Central State University assessment of campus plants and program of maintenance.

R. Dobec - Consultant to various trainers (Standardbred) and owners (Thoroughbred)

W. Greene - Cuyahoga Community College: Preparation of teaching materials for a new course in the Veterinary Assistant program

K. Hammond - Questions from homeowners, landscapers, advisory committee members, graduates and alumni; Tech Prep participant; National Landscape Review Council work; ONLA State Certification Committee; ONLA Student Activity/Scholarship Committee; ALCA Accreditation Team

T. Lanker - Florists' Review regarding content for articles, particularly monthly "Design School" feature; Redbook Florist Services: Planning, organizing and instructing national floral design workshops, particularly "American Tributes" workshop; Ohio Florists' Association: Planning for International Floriculture Industry Short Course retail design programs.

S. Lunsford - Administered 147 reading and writing pre-test/post-test competency assessments and statistical reports for Seaman Corporation.

B. McMahon - Greenhouse businesses regarding various floriculture production problems and the general public regarding houseplant and garden questions.

E. Miller - Patty Romenik, Cincinnati, OH regarding the testing and instruction at the Seaman Corporation.

S. Neal - National Pork Producers Council Curriculum Credit/Certification Committee: development of a standardized set of college course requirements; Cuyahoga Community College - development of course materials for an introductory animal science as part of the Veterinary Assistant program.

J. Opliger - Capitol Manufacturing, Westerville, OH; LuK, Wooster, OH; Northeast State Technical Community College, Blountville, TN; Ohio Bureau of Employment Services, Columbus, OH; Muskingum Area Technical College, Zanesville, OH; F. J. Designs, Wooster, OH; Magni Power, Wooster, OH.

S. Rahnema - Inquiries from public about producing fish in Ohio.

R. Thornton - Advice is given to farmers when called upon on a one time basis.

D. Voltz - Triway High School, Wooster regarding the athletic field; Shady Hollow Country Club, Massillon

D. Willoughby - IMC Vigoro, Winter Haven FL - R&D and the Marketing Research Departments; Advanced Irrigation - electronics, irrigation and communication; Shady Hollow Country Club, Massillon - golf course management; North Canton Athletic Fields, North Canton - turfgrass development and athletic field construction; Northern Ohio Golf Course Superintendents' Association; industry professionals and private homeowners dealing with turfgrass-related problems.

S. Woods - Advice to commercial farmers while making internship visits; Winsink Seed Farms at Milan, OH; Frank Bolling Farms at Circleville, OH.

T. Zimmerman -Mercer Co. Extension Office field tour regarding research on constructed wetlands; Apple Creek Cemetery Association survey and plot potential grave sites; to re-write the old Ohio Drainage Guide and Ohio Irrigation Guide; clients requiring assistance with soils identification and limitations for on-site sewage systems

IV. GRANTS AND CONTRACTS

A. COMPETITIVE GRANTS

1. Proposals submitted but not funded

G. Knowlton, A. Mokma - Student Support Services USDE Title IV (Program EXCEL) October. Currently being reviewed.

A. Mokma - "Collaborative Agricultural Course Development and Telecommunication Delivery" (prepared with OU Lancaster and OSU Lima) submitted to U.S. Department of Agriculture, August.

2. Proposals submitted and funded

B. Aylsworth - Tech Prep continuation/expansion. Ohio Department of Education \$100,000.

J. Carr - Small Grant for purchase of digital camera. OSU Technology Services.

J. Carr - Course software including 25 copies of: Windows 95, Microsoft Office, and Microsoft Project. MICROSOFT. \$50,000.

T. Zimmerman - Monitoring water quality from constructed wetlands for the disposal of milkhouse wastewater. Ohio EPA. \$17,000 (third year of 3-year grant).

B. Gift Activity

K. Cochran - Plant material donations: \$7,000 for Secrest Arboretum Volunteers Ltd. to sell at Plant Discovery Day; \$2600 for ATI campus plantings; International Plant Propagation Society Journals Collection, 1952 to 1994, Chadwick's.

D. Willoughby - Equipment and materials, \$30,000 for student instruction

S. Woods - Unrestricted funds, \$4000.00 for program development in Crop Production and Management.

VI. AWARDS AND HONORS

K. Cochran, W. Greene, M. Headings, E. Miller, J. Opliger - 1996 National Institute for Staff and Organizational Development (NISOD) Excellence Award.

M. Headings, L. Houston, S. Lunsford, D. Munn - Who's Who Among America's Teachers, 1996.

B. McMahon - ATI Distinguished Teaching Award